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APPLICATION NO.	FILIN	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/776,851	02/06/2001		Yukie Miyamoto	NE-1038-US/KM	6853
7590 06/04/2004			EXAMINER		
McGinn & G	ibb, PLLC		BLOUNT, STEVEN		
Suite 200					
8321 Old Courthouse Road				ART UNIT	PAPER NUMBER
Vienna, VA 22182-3817				2661	5
			DATE MAILED: 06/04/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/776,851	MIYAMOTO, YUKIE					
Office Action Summary	Examiner	Art Unit					
	Steven Blount	2661					
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 05 No	ove <u>mber 2002</u> .						
·— · <u> </u>	action is non-final.						
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) ☐ Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-28 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ acce	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3.4.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:						

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 15 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 15, lines 6 – 7, "regardless of a nominal lower limit of a power control range" is indefinite.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 3, 15, 17, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 5,794,129 to Komatsu.

With regard to claim 1, Komatsu teaches that if the quality of the signals is "low or unnecessarily high", the transceiver sends to the base station a request for a change in power, containing information on how much the power is to be "increased or decreased" (col 1, lines 53+). While it is not *explicitly* stated that you increase the power if the quality has higher than a threshold, one of ordinary skill in the art would recognize by the above statement that this is what is implied, and would find it obvious in view of

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what is stated. The examiner notes that in addition to the fact that nominal limit values are stated in the preamble, but not in the body of the claim, "provisional values for transmission power control signals" are mentioned in col 5, lines 31+.

With regard to claim 2, see col 1 lines 53+ and note the same reasoning as above.

With regard to claim 3, note the above, in addition to the fact that in col 4 lines 43 – 50 and col 5 lines 47 – 51, it is stated that the sum of the channel powers is determined, and if it surpasses a value, the channels with relatively high values are reduced (col 5 line 56). This would make obvious the opposite – that if the calculation is made and does not surpass a predetermined value, then there is available power to be shared on the channel with the base station requesting the increase in transmit power.

With regard to claims 15 and 17, see the rejections above where the claim limitations are discussed.

With regard to claim 28, see the rejection of claim 1 above, including the mention of provisional values for transmission power control signals.

5. Claims 4 – 7, 14, 16, and 18 – 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 5,794,129 to Komatsu as applied above, and further in view of U.S. patent 6,341,214 to Uesugi.

Komatsu teaches the invention as described above, including setting the power values to upper or lower limits depending upon a power value calculation (col 5 lines 40 – 46). Komatsu does not, however, teach "decreasing said transmit power of said

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downlink channel if said downlink channel has a quality lower than a specified threshold value." This is taught in Uesugi. See col 2 lines 53+ and col 6 lines 50+.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have lowered the transmit power of the downlink channel of Komatsu when the quality is lower than a specified threshold value, in light of the teachings of Uesugi, in order to save battery power.

With regard to claims 5 - 7, see the rejection of claim 1 above.

With regard to claim 14, see the rejections above, including the citation to col 5 lines 40 – 46.

With regard to claims 16, and 18 - 21, see the rejections above.

6. Claims 8 – 11 and 22 – 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 5,794,129 to Komatsu and U.S. patent 6,341,214 to Uesugi as applied above, and further in view of U.S. patent 6,226,526 to Sakoda et al. With regard to claim 8, Komatsu/Uesugi teach the invention as described above, but do not teach decrementing or incrementing the power by a stepsize that varies depending on the length of time the power level is lower than a predetermined level. Sakoda et al teaches Incrementing a count value in proportion to the number of power up or power down commands are made: "Accordingly, when the number of times the power-down command is supplied increases and the count value of the counter 36 reaches "M" in due course, the control unit 34 lowers the transmission power by one dB according to the power-down command" (col 8 lines 44+. See also col 7 lines 44+). Since it is stated that "Incidentally, since the maximum count value of the counter 36 is set to "N" (in this

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example, N=10), the count value is not incremented over "N" even if the number of power-up commands exceeds "N"." (col 7 lines 58+). In view of the fact that the number of counts needed to reach a maximum value is proportional to the passage of time (as in applicants specification, page 11, lines 11+), It would have been obvious to one of ordinary skill in the art at the time of the invention to have decremented the power in Komatsu/Useugi by a stepsize that corresponds to the length of time the power level is lower than a predetermined level in light of the teachings of Sakoda et al in order to help optimize the channel conditions.

With regard to claims 22 - 25, see the above, and again note the maximum value "N" cited above.

7. Claims 12, 13, 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 5,794,129 to Komatsu as applied above, and further in view of U.S. patent 6,226,526 to Sakoda.

With respect to claim 12, Komatsu teaches the invention as described above, but does not teach the use of a count value to control power level. This is taught in Sakoda as discussed above, wherein it would have been obvious to supply Komatsu with a count value to control the power level in light of the teachings of Sakoda in order to further optimize the channel conditions.

With regard to claim 13, see the rejections above, including col 5 lines 40 – 45 of Komatsu.

With regard to claims 26 – 27, see the rejections above, including col 5 lines 40 – 45 of Komatsu and also the value limit value "N" in Sakoda discussed above.

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8. Examiner Steven Blount may be reached at 703-305-0319 between the hours of 9:00 and 5:30 Monday through Friday.

Ajit Patel